

Addressee" Mailing Label No.

3/100

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application Of:	
Lars G. Svensson, et al.	Group Art Unit:
Serial Number: 09/758,631	
Filing Date: January 10, 2001	
Entitled: SYSTEM AND METHOD FOR) POWER-EFFICIENT CHARGING AND) DISCHARGING OF A CAPACITIVE LOAD) FROM A SINGLE SOURCE)	

INFORMATION DISCLOSURE STATEMENT

Sir:

age as first class mail

(Type or print name of person mailing paper

Jessica S. Brown

In accordance with 37 C.F.R. § 1.56, the references listed on the attached Form PTO-1449 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-captioned continuation reissue patent application. Copies of the cited documents are enclosed.

DOCKET NO. 18036-29

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner.

CONCLUDING REMARKS

It is respectfully requested that the examiner indicate consideration of the cited reference by returning a copy of the attached form PTO-1449 with initials or other appropriate marks with the first Office Action, and that the reference be made of record as a cited reference in the application.

Respectfully submitted,

Date: April 13, 2001

MarcE. Brown

Registration No. 28,590

OPPENHEIMER WOLFF & DONNELLY LLP

2029 Century Park East, 38th Floor Los Angeles, CA 90067-3024

Telephone: (310) 788-5000 Facsimile: (310) 788-5100

DOCKET NO. 18036-29 SERIAL NO.	known Filing Date (if applicable) 2/02/70 4/29/70 1/21/77							
APPLICANT'S INFORMATION DISCLOSURE Statement	Filing Date (if applicable) 2/02/70 4/29/70							
Exr's. Ref. Patent No. Date Name Class Sub Class AA 3,603,898 9/7/71 John Howard Dawson et al. 333 70 AB 3,654,537 4/4/72 David W. Coffey 320 1 AC 4,082,430 4/4/78 Peter U. Schulthess et al. 350 333 AD 4,107,757 8/15/78 Senichi Masuda et al. 361 235	Filing Date (if applicable) 2/02/70 4/29/70							
Exr's. nits. Ref. Patent No. Date Name Class Sub Class AA 3,603,898 9/7/71 John Howard Dawson et al. 333 70 AB 3,654,537 4/4/72 David W. Coffey 320 1 AC 4,082,430 4/4/78 Peter U. Schulthess et al. 350 333 AD 4,107,757 8/15/78 Senichi Masuda et al. 361 235	applicable) 2/02/70 4/29/70							
AA 3,603,898 9/7/71 John Howard Dawson et al. 333 70 AB 3,654,537 4/4/72 David W. Coffey 320 1 AC 4,082,430 4/4/78 Peter U. Schulthess et al. 350 333 AD 4,107,757 8/15/78 Senichi Masuda et al. 361 235	applicable) 2/02/70 4/29/70							
AB 3,654,537 4/4/72 David W. Coffey 320 1 AC 4,082,430 4/4/78 Peter U. Schulthess et al. 350 333 AD 4,107,757 8/15/78 Senichi Masuda et al. 361 235	4/29/70							
AC 4,082,430 4/4/78 Peter U. Schulthess et al. 350 333 AD 4,107,757 8/15/78 Senichi Masuda et al. 361 235								
AD 4,107,757 8/15/78 Senichi Masuda et al. 361 235	1/21/77							
AE 4,109,192 8/22/78 Ronald Brent Burbank et al. 320 1	6/30/77							
	6/25/76							
AF 4,328,525 5/04/82 Jay W. Allen et al. 361 152	6/27/80							
AG 4,594,589 6/10/86 Toshihiro Ohba et al. 340 805	8/27/82							
AH 4,605,999 8/12/86 Wayne C. Bowman et al. 363 19	3/11/85							
AI 4,707,692 11/17/87 Marvin L. Higgins et al. 340 805	11/30/84							
AJ 4,802,739 2/7/89 Yoshihiro Iwamoto 350 332	2/27/86							
AK 4,818,981 4/4/89 Ken-ichi Oki et al. 340 784	9/11/87							
AL 4,862,113 8/29/89 Otto R. Buhler et al. 331 117	1/06/88							
AM 4,893,117 1/9/90 Peter F. Blomley et al. 340 784	7/17/87							
OTHER REFERENCES (Including Author, Date, Title, Pertinent Pages, Etc.))							
xr's. Ref. Bibliographic Data nits.								
AN Ammer, J., M. Bolotski, P. Alvelda, T.F. Knight, Jr., "TP12.5: A 160 x 120 Pixel Liquid Silicon Microdisplay with an Adiabatic DACM," In 1999 IEEE International Solid-State Conference Digest of Technical Papers, pp. 212-213.	d-Crystal-on- es Circuits							
AO Ammer, J., M. Bolotski, P. Alvelda, T.F. Knight, Jr., "TP12.5: A 160 x 120 Pixel Liquid Silicon Microdisplay with an Adiabatic DAC," 1999 ISSCC Slide Supplement, pp. 184	d-Crystal-on- 4-185, 435							
AP Athas, William C., "Energy-Recovery CMOS," Chapter 5 in J. Rabaey, M. Pedram (Ed Design Methodologies, Kluwer Academic Press, 1996.								
AQ Athas, W.C. and L.J. Svensson, Reversible Logic Issues in Adiabatic CMOS, IEEE V Physics and Computation, 11/17-20/94 www.isi.edu/acmos								
	Athas, W.C., J. Koller and L. Svensson, <i>An Energy-Efficient CMOS Line Driver Using Adiabatic Switching,</i> University of Southern California, Information Sciences Institute Technical Report							
AS Athas, W.C., J. Koller and L. Svensson, "An Energy-Efficient CMOS Line Driver Usin Switching," <i>IEEE</i> , 1994, pp. 196-199.	ng Adiabatic							
xaminer Date Considered								

*Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. ¶ 609. Draw line through citation (i.e., citation) if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)			DOCKET NO. 18036-29	SERIAL NO. 09/758,631			
APPLICA	LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION ESCLOSURE STATEMENT		APPLICANT: Svensson, Lars G., et al.				
		APR 1 6 8001 2		FILING DATE: January 10,		Art Unit: N	ot known
	19	701	UNITED ST	TATES PATENT DOCUMENT	rs		
*Exr's. Inits.	Ref.	POHRHEMON	Date	Name	Class	Sub Class	Filing Date (if applicable)
	AT	4,920,474	4/24/90	Gert W. Bruning et al.	363	97	8/29/89
	AU	5,051,668	9/24/91	Seiji Kawaberi et al.	315	408	8/01/90
	AV	5,063,340	11/5/91	John A. Kalenowsky	320	1	10/25/90
 	AW	5,095,223	3/10/92	Alexander C. Thomas	307	110	5/21/91
	AX	5,105,288	4/14/92	Koji Senda et al.	359	57	10/16/90
<u> </u>	AY	5,107,136	4/21/92	Michael A. W. Stekelenburg	307	269	3/29/90
	AZ	5,126,589	6/30/92	Herman L. Renger	307	270	8/31/90
	ВА	5,150,013	9/22/92	Andrzej Bobel	315	209	5/6/91
	ВВ	5,206,632	4/27/93	Antoine Dupont et al.	340	784	9/11/90
	ВС	5,247,376	9/21/93	Yoichi Wakai et al.	359	55	11/9/89
	BD	5,264,752	11/23/93	Joseph P. Savicki	310	316	6/1/92
	BE	5,293,082	3/8/94	Mehdi Bathaee	307	270	6/4/93
	BF	5,339,236	8/16/94	Akio Tamagawa	363	59	2/24/93
Exr's.	Ref.	OTHER REFER	<u>`</u>	ıding Author, Date, Title, Pe	rtinent F	Pages, Et	c.)
	BG			and N. Tzartzanis, "A Resonant E International Symposium on C			
	ВН	Clock-Powered August 1997.	d Microprocesso	Svensson, L. Peterson, H. Li, X. or," <i>IEEE Intl. Symposium on Lov</i>	v-Power E	Electronics	and Design,
BI Athas, William C., Lars "J." Svensson, Jeffrey G. Koller, Nestoras Tzartzanis and Eric Chou, "Low-Power Digital Systems Based on Adiabatic-Switching Principles," <i>IEEE Tr Very Large Scale Integration (VLSI) Systems</i> , Vol. 2, December 1994, pp. 398-407.							E Transactions or
	BJ			tions in Multichip-Module Based ign 1991, pp. 593-600.	Multiproc	essors," <i>IE</i>	EE International
	BK		et al., "Low-Po No. 4, pp. 473-4	wer CMOS Digital Design," <i>IEEE</i> 184	Journal	of Solid-Sta	ate Circuits, April
		, , , , , , , , , , , , , , , , , , , ,	, F.F.				
xaminer		1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date Considered			

FORM	PTO-14	49 (Modified)		DOCKET NO. 18036-29		SERIAL N	Page 3 IO. 09/758,6	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS INFORMATION DISCLOSURE				APPLICANT:				
APPLICA STATEM	ENT CS IN	CAMATION DISCLO	OSURE 	Svensson, Lars G., e	et al.			
\bot	APR 1	5 2001 ····		FILING DATE: January 1		Art Unit: N	ot known	
是		一		TATES PATENT DOCUMEN	NTS			
*Exr's. Inits.	Ref.	Patht No.	Date	Name	Class	Sub Class	Filing Da applicab	ig Date (if licable)
	BL	5,349,366	9/20/94	Shunpei Yamazaki et al.	345	92	10/27	7/92
	ВМ	5,459,414	10/17/95	Alexander G. Dickinson	326	93	5/28	3/93
	BN	5,465,054	11/07/95	Richard A. Erhart	326	34	4/8	3/94
	ВО	5,473,269	12/5/95	Alexander G. Dickinson	326	93	11/4	1/94
	ВР	5,473,526	12/5/95	Lars Svensson et al.	363	60	4/22	2/94
	BQ	5,506,520	4/09/96	David J. Frank et al.	326	96	1/11	1/95
	BR	5,508,639	4/16/96	John W. Fattaruso	326	97	1/13	3/95
	BS	5,510,748	4/23/96	Richard A. Erhart	327	530	1/18	3/94
	ВТ	5,517,145	5/14/96	David J. Frank	327	201	10/31	1/94
	BU	5,521,538	5/28/96	Alexander G. Dickinson	326	93	3/30/95 1/31/95	
	BV	5,526,319	6/11/96	Robert H. Dennard et al.	365	226		
	<u> </u>		FOREIC	ON PATENT DOCUMENTS	I			-
Exr's. nit.	Ref	Document No. Date Country			Class	Sub	Translati Yes N	ion? No
	BW							
	ВХ					•		
	BY							
	C	THER REFERE	NCES (Inclu	iding Author, Date, Title, F	Pertinent F	ages, Et	c.)	
Exr's. nits.	Ref.	Bibliographic D	ata					
	BZ			Display Drivers: 'Little Things' 997, Vol. 12, No. 10, pp. 10, 12		he Image	Quality Picto	ure,"
	CA			rs Svensson, "Startup Energies computation '96, Boston, MA, N			CMOS," in	
	СВ	Dickinson, Alex C		S. Denker, "Adiabatic Dynamic . 282-285.	Logic," <i>IEE</i>	E, Custom	Integrated	·
	СС			Paper: A High-Voltage High-Grancess," SID 94 Digest, 1994, pp		CD Colum	n Driver Util	izing
	CD	Erhart, Alex. "Dir	ect Drive Pro	mises Reduced Power Consunion Display, Dec. 1996, Vol. 12	nption and I		mage Qualit	ty for
xaminer	1	T. T. C.		Date Considered	,			
				1				

_

		\	·				Page 4 01 9
FORM PTO-1449 (Modified)				DOCKET NO. 18036-29	SERIAL NO. 09/758,631		
LIST OF APPLICA STATEM	PATENT ANT'S IMI IENT	FORMATION ASCLU	NS FOR DSURE	APPLICANT: Svensson, Lars G., e	et al.		
		APR 1 6 2001		FILING DATE: January	10, 2001	Art Unit: N	ot known
	13		UNITED S	TATES PATENT DOCUME	NTS		
*Exr's. Inits.	Ref.	Patent NA	Date	Name	Class	Sub Class	Filing Date (if applicable)
	CE	5,528,256	6/18/96	Richard A. Erhart et al.	345	96	8/16/94
	CF	5,559,463	9/24/96	John S. Denker et al.	327	300	4/18/94
	CG	5,559,478	9/24/96	William C. Athas et al.	331	117	7/17/95
	СН	5,572,211	11/5/96	Richard A. Erhart et al.	341	144	1/18/94
	CI	5,578,957	11/26/96	Richard A. Erhart et al.	327	333	11/27/95
	CJ	5,602,497	2/11/97	Steven D. Thomas	326	93	12/20/95
	СК	5,604,449	2/18/97	Richard A. Erhart et al.	326	81	1/29/96
	CL	5,604,454	2/18/97	Jeffrey E. Maguire et al.	327	112	9/29/95
	СМ	5,657,039	8/12/97	Katsuya Mizukata et al.	345	95	11/3/94
	CN	5,675,263	10/07/97	Thaddeus J. Gabara	326	97	11/21/95
	СО	5,694,445	12/02/97	Hiroshige Hirano et al.	377	57	9/20/95
	_l	<u> </u>	FOREI	GN PATENT DOCUMENTS	<u> </u>	I	
Exr's. Init.	Ref	Document No.	Date	Country	Class	Sub	Translation? Yes No
······································	СР					<u> </u>	
	(THER REFERE	NCES (Incl	uding Author, Date, Title, F	Pertinent F	ages, Et	c.)
Exr's. Inits.	Ref.	Bibliographic D	ata				,,
	CQ	Flat Panel Displa Stanford Resour		Technology Trends & Fundan	nentals, Firs	t Edition, 1	999, San Jose:
	CR			H. Soonpaa (Physics Departme " American Journal of Physics			
	cs		harging A Ca	lid State Physics, Swiss Feder pacitor: A Demonstration Expe pp. 742-744.			
	СТ		on-Ideal Cap	ay and Bedford New College, Lacitors," <i>IEEE Transactions on</i>			
	CÜ	Recycle Refresh	for Gb-scale	. Kawajiri, T. Akiba, G. Kitsuka DRAMs in File Applications," lay 19-21, 1993, pp. 41-42.			
Examine	r			Date Considered	-		
*Examine	r: Initial if	citation considered, whe	ther or not citation	on is in conformance with M.P.E.P. ¶ 6	09. Draw line	through citat	ion (i.e., citation) if not

*Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. ¶ 609. Draw line through citation (i.e., citation) if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)				DOCKET NO. 18036-29	SERIAL NO. 09/758,631			
LIST OF F APPLICAL STATEME	N y 'S INF	SANDOURLICATIO FORMATION DISCLO	NS FOR DSURE	APPLICANT: Svensson, Lars G., et a	l.			
	ADI	R 1 6 2001		FILING DATE: January 10,	2001	Art Unit: No	t known	
	PER		UNITED ST	TATES PATENT DOCUMENTS				
*Exr's. Inits.	Rei	MADERAL No.	Date	Name	Class	Sub Class	Filing applic	Date (if able)
	CV	5,734,285	3/31/98	Geoffrey P. Harvey	327	291	12/17/	93
	CW	5,748,165	5/5/98	Yashushi Kubota et al.	345	96	12/23/	94
	СХ	5,754,156	5/19/98	Richard Alexander Erhart et al.	345	98	9/19/9	6
	CY	5,818,252	10/6/98	Edward Carl Fullman et al.	324	765	9/19/9	6
	CZ	5,821,923	10/13/98	Alfonsus M. Van Amesfoort et	345	212	2/23/9	6
	DA	5,838,203	11/17/98	al. Georgios Stamoulis et al.	331	1 A	12/6/9	6
	DB	5,838,289	11/17/98	Hideki Saito et al.	345	79	9/26/9	5
•	DC	5,841,299	11/24/98	Vivek K. De	326	98	2/6/97	,
	DD	5,852,426	12/22/98	Richard Alexander Erhart et al.	345	96	3/21/9	6
	DE	5,861,861	1/19/99	James B. Nolan et al.	345	87	6/28/9	6
	DF							
		<u>. L</u>	FOREIC	ON PATENT DOCUMENTS	1			
Exr's. Init.	Ref	Document No.	Date	Country	Class	Sub	Trans	ation?
	DG							
	DH		-					
	DI							
,	C	THER REFERE	NCES (Incl	uding Author, Date, Title, Per	tinent F	ages, Etc	s.)	
Exr's. Inits.	Ref.	Bibliographic D	ata					
	DJ			C. Athas, "Adiabatic Switching, Log Information," IEEE Press 1993,			ng, and th	ne
	DK		d, "EL Design	Yields Brighter Display At Lower			Engineer	ring
	DL	· ·		Gate Drive With Resonant Transi	tions," IE	EE Press,	1991, pp	. 527-
	DM	Mateo, D. and A. 1/18/96, pp. 99-1		si-adiabatic ternary CMOS logic,"	Electron	ics Letters,	Vol. 32,	No. 2,
	DN	Mead et al., "Cha Addison-Wesley,		Devices and Circuits," In Introduc	tion to V	LSI Systen	ns, 1980,	
Examiner	!	ı		Date Considered				
				on is in conformance with M.P.E.P. ¶ 609.				

				<u>-</u>				
FORM PTO-1449 (Modified)			DOCKET NO. 18036-29 SERIAL NO. 0			10. 09/75	8,631	
LIST OF I	PATE NE NTS INF	ORMATION DISCL	ONS FOR OSURE	APPLICANT: Svensson, Lars G., e	t al.			
	1	1 6 2001		FILING DATE: January 10	0. 2001	Art Unit: N	ot known	
	1		UNITED S	TATES PATENT DOCUMEN				
*Exr's. Inits.	New T	Paterti No.	Date	Name	Class	Sub Class	Filing applic	Date (if able)
	DO	5,870,331	2/09/99	Yi-Ren Warry Hwang et al.	365	154	9/26/9	97
	DP	5,880,602	3/9/99	Yasuo Kaminaga et al.	326	81	2/28/9	96
	DQ	5,881,014	3/9/99	Tsukasa Ooishi	365	226	8/19/9	7
	DR	5,883,538	3/16/99	Brent Keeth et al.	327	333	5/21/9	97
	DS	5,889,439	3/30/99	Robert Meyer et al.	331	17	8/20/9	97
	DT	5,892,540	4/6/99	Lester J. Kozlowski et al.	348	300	6/13/9	96
	DU	5,896,117	4/20/99	Seung-Hawn Moon	345	95	6/27/9	96
	DV	5,900,854	5/4/99	Hiroji Itoh et al.	345	99	9/28/9	95
	DW							
J	DX		1				-	
	DY							.,,
	<u> </u>	<u> </u>	FOREI	GN PATENT DOCUMENTS		<u>I</u>	<u> </u>	
Exr's. Init.	Ref	Document No.	Date	Country	Class	Sub	Trans Yes	lation? No
	DZ							
	EA	-		`				1.0
	C	THER REFERE	NCES (Incl	uding Author, Date, Title, P	ertinent F	ages, Et	c.)	
Exr's. Inits.	Ref.	Bibliographic D	ata					
	ЕВ	Morimura, Hirok Monterey CA US		o Shibata, "A 1-V 1-Mb SRAM f	or Portable	Equipme	nt," <i>ISLPE</i>	D, 1996
	EC	Lightwave Techi	nology, June	spective on Digital Interconnecti 1992, Vol. 10, no. 6, pp. 811-82	7.			
	ED	RCA Transistor pp. 179-183.	Thyristor & D	iode Manual, RCA Corporation,	4/71, Tech	nical Serie	es SC-15,	1971,
	EE		J.L. Sanford	"New Circuits for AMLCD Data	Line Drive	rs," 1994.		
	1	Soitz et al "Het	-Clock nMOS	," Proceedings of the 1985 Cha	pel Hill Cor	nference o	n VLSI, 1	985, pp.
	EF	1-17						

FORM PTO-1449 (Modified)			DOCKET NO. 18036-29	SERIAL NO. 09/758,631						
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT OF THE PROPERTY OF THE PROPE				APPLICANT: Svensson, Lars G., et al.						
/	7	CH		FILING DATE: January 10,		Art Unit: Not	known			
	APR 1	6 2001	UNITED ST	ATES PATENT DOCUMENT	S					
*Exr's. \ Inits.	Ref.	Patentilo.	Date	Name	Class	Sub Class	Filing I applica	Date (if able)		
	EGYMA	DEMI								
	EH									
	El									
	EJ									
	EK					,				
	EL						-	-		
	EM									
	EN									
	EO			·						
	EP									
	EQ									
				ON PATENT DOCUMENTS						
Exr's. Init.	Ref	Document No.	Date	Country	Class	Sub	Transla Yes	ation? No		
	ER			, , , ,				***		
	ES	· · · · · · · · · · · · · · · · · · ·								
	0	THER REFEREN	CES (Inclu	ding Author, Date, Title, Per	tinent F	Pages, Etc.)			
Exr's. Inits.	Ref.	Bibliographic Da	ta							
	ET	Masakazu Aoki, "l	Sekiguchi, Tomonori, Masashi Horiguchi, Takeshi Sakata, Yoshinobu Nakagome, Shigeki Ueda and Masakazu Aoki, "Low-Noise, High-Speed Data Transmission Using a Ringing-Canceling Output Buffer," <i>IEEE Journal of Solid-State Circuits</i> , Vol. 30, No. 12, 1995, pp. 1569-1574.							
	EU		•	e and Kaushik Roy. "An Energy R ower Electronics, 2d ed., 1995, p	•		Memory	Core,"		
	EV	December 17, 199	93.	Charging Without Inductors, USC/			ACMOS	S-TR-3,		
	EW	[Svensson, L.J.] L	S. "LCD Driv	ver Test Chip Evaluation," Octobe	r 21, 199	96.				
	EX			and R.SC. Wen, "A sub-CV ² pa SA, 8/96, pp. 105-108.	d driver v	vith 10 ns tra	insition (time,"		
Examiner				Date Considered	· <u></u>	· · · · · · · · · · · · · · · · · · ·				
*Examiner:	Initial if ci	tation considered, wheth	ner or not citation	n is in conformance with M.P.E.P. ¶ 609.	Draw line	through citation	(i.e., citat	ion) if not		

Page 8 of 9 FORM PTO-144 (Modified) **DOCKET NO. 18036-29** SERIAL NO. 09/758,631 LIST OF PATENTS AND APPLICANT: APPLICANT'S INFORMATION DISCLOSURE Svensson, Lars G., et al. **STATEMENT** FILING DATE: January 10, 2001 Art Unit: Not known **UNITED STATES PATENT DOCUMENTS** Filing Date (if *Exr's. Ref. Patent No. Date Name Sub Class applicable) Inits. EY EZ FA FB FC FD FE FF FG FΗ FI FJ OTHER REFERENCES (Including Author, Date, Title, Pertinent Pages, Etc.) Exr's. Ref. Bibliographic Data Inits. Syensson, L. "J." and W.C. Athas, "Stepwise Charging Without Equations," USC/ISI, 2/25/97, pp. 14. FK Tzartzanis, Nestor and William C. Athas, "Clock-Powered CMOS: A Hybrid Adiabatic Logic Style for Energy-Efficient Computing," 20th Anniversary Conference on Advanced Research in VLSI, IEEE FL Computer Society Press, March 1999. Tzartzanis, Nestor and William C. Athas, "Énergy Recovery for the Design of High-Speed, Low-**FM** Power Static RAMs." International Symposium on Low-Power Electronics and Design, August 1996. Monterey CA USA, pp. 55-60. Tzartzanis, Nestor, Energy-Recovery Techniques for CMOS Microprocessor Design, Ph.D. FN Dissertation, University of Southern California, August 1998, 163 pp. Weste et al., "Principles of CMOS VLSI Design, A Systems Perspective," Chapter 5 in CMOS Circuit FO and Logic Design, 2d Edition, 1993, Addison-Wesley, pp. 160-231. [need copy of document.] Ye, Yibin and Roy Kaushik, "Energy Recovery Circuits Using Reversible and Partially Reversible FP

*Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. ¶ 609. Draw line through citation (i.e., citation) if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date Considered

pp. 769-778.

Examiner

Logic," IEEE Transactions on Circuits and Systems - I. Fundamental Theory, Vol. 43, No. 9, 1996,

		6200						Page 9 of 9		
LIST OF PATENTS AND PLANT ATIONS FOR				DOCKET NO.	18036-29		SERIAL NO	. 09/758,631		
LIST OF APPLICA STATEM	NT'S INF	SANDER HILL PATIC	ONS FOR OSURE	APPLICANT: Svensson, Lars G., et al.						
			-	FILING DATE:			Art Unit: Not	known		
			UNITED S	TATES PATENT D	OCUMENTS	•				
*Exr's. Inits.	Ref.	Patent No.	Date	Name	C	Class	Sub Class	Filing Date (if applicable)		
	FQ									
	FR									
	FS									
	FT									
	FU						-			
	FV									
	FW									
	FX									
	FY									
	FZ									
· 		TUED DEEEDE	NCES (Incl	uding Author, Date	Title Dort	inont B	lagos Etc	,		
				uding Author, Date	e, Tille, Perl	inent F	ayes, Etc.	,		
Exr's. Inits.	Ref.	Bibliographic D								
	GA	Younis, Saed G IEEE, 9/95, pp.		s F. Knight, Jr., "Non-I	Dissipative Ra	ail Driver	s for Adiaba	tic Circuits,"		
	GB	Bus and I/O Pro	Yuan, Jiren (Linkoping University), "Low Power and Low Area or High Throughput Single-Ended Bus and I/O Protocols," <i>Proceedings of 1997 IEEE International Symposium on Circuits and Systems: Circuits and Systems in the InformationAge, ISCAS '97, June 9-12, 1997, Hong Kong</i> , pp 1932-1935							
	GC									
	GD		· · · ·							
	GE									
	GF									
	GG		1,444,							
Examine		<u>.L</u>		Date Considered						
				ion is in conformance with I		Draw line	through citation	(i.e., citation) if not		